Feasibility Study: Recirculation as a Tool for Meeting Lower San Joaquin River Flow and Water Quality Objectives

Purpose
Meet lower San Joaquin River flow and water quality objectives while minimizing impacts to existing water users in the basin.

Project Description
Evaluate the feasibility of recirculation of water pumped from the Delta by the CVP and SWP to help meet San Joaquin River flow and water quality objectives. Specific technical tasks related to the feasibility study are outlined below:

- Determine hydrologic, hydrodynamic, and water quality impacts of various recirculation alternatives related to the Bay-Delta, with emphasis on the south Delta.
- Determine possible changes in agricultural surface and subsurface flows to the lower San Joaquin River, including data analysis on water quality impacts (i.e. selenium, TDS, and bromides).
- Evaluate implications of proposed recirculation alternatives on estuarine habitats and sensitive species of the Bay-Delta, with emphasis on evaluation of impacts to threatened and endangered species.
- Identify the environmental issues related to biological effects of recirculation operations on lower San Joaquin River fisheries.
- Evaluate the water supply reliability impacts of regulations, and new laws related to the recirculation alternatives on SWP/CVP operations.
- Evaluate potential capital improvement projects related to the recirculation alternative, including costs/benefits analysis.

Implementing Agencies
Project Management: John Renning
Lead Federal Agency: USBR
Lead State Agency: DWR
Local: Water Districts and the San Joaquin River Group Association

Required Resources

Coordination
See coordination discussion for Stockton Dissolved Oxygen Solution Alternatives.

Schedule

EIR/EIS: CVP/SWP Consolidation of Diversions

Project Purpose
To optimize efficiency and reliability, as well as reduce impacts of State and Federal Delta diversion facilities.

Project Description
Evaluate and decide on whether to retain a separate CVP export fish screen and salvage facility or to consolidate with the SWP facility. Specific technical tasks related to the feasibility study are outlined below:

- Evaluate consolidation alternatives including an intertie between the two pumping plant intakes.
- Evaluate possible intertie between the project aqueducts downstream of the export pumps.
- Evaluate implications of proposed intake locations on estuarine habitats and sensitive species of the Bay-Delta, with emphasis on evaluation of impacts to threatened and endangered species.
- Determine hydrologic, hydrodynamic, and water quality impacts of proposed intake locations in the south Delta.
- Evaluate the water supply reliability impacts of consolidation on SWP/CVP operations.
- Evaluate potential capital improvement projects related to the consolidation, including costs/benefits analysis.
- Evaluate plans and regulations on the operations of CVP/SWP export facilities, including institutional arrangements.

Implementing Agencies
Lead Federal Agency: USBR
Lead State Agency: DWR

Required Resources

Coordination

Schedule